

```

<!--StartFragment-->US-08-100-709-4
; Sequence 4, Application US/08100709
; Patent No. 5322687
; GENERAL INFORMATION:
; APPLICANT: Donovan, William P.
; APPLICANT: Tan, Yuping
; APPLICANT: Jany, Christine S.
; APPLICANT: Gonzalez Jr., Jose M.
; TITLE OF INVENTION: BACILLUS THURINGIENSIS cryET4 AND cryET5
; TITLE OF INVENTION: TOXIN GENES AND PROTEINS TOXIC TO LEPIDOPTERAN INSECTS
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Panitch Schwarze Jacobs & Nadel c/o A.S.
; ADDRESSEE: Nadel
; STREET: 1601 Market Street, 36th Floor
; CITY: Philadelphia
; STATE: Pennsylvania
; COUNTRY: U.S.A.
; ZIP: 19103
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/100,709
; FILING DATE: 19930729
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: Egolf, Christopher
; REGISTRATION NUMBER: 27633
; REFERENCE/DOCKET NUMBER: 7205-49
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 215-757-1590
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1229 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-100-709-4

```

```

Query Match          100.0%; Score 3143; DB 1; Length 1229;
Best Local Similarity 100.0%; Pred. No. 2.6e-275;
Matches 599; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

Qy      1 TSNRKNENEIINALSIPTVSNPSTQMNLSPDARIEDSLCVAEVNNIDPFVSASTVQTGIN 60
        |
Db      2 TSNRKNENEIINALSIPTVSNPSTQMNLSPDARIEDSLCVAEVNNIDPFVSASTVQTGIN 61
        |
Qy      61 IAGRILGVLGVPPFAGQLASFYSFLVGELWPSGRDPWEIFLEHVEQLIRQQVTENTRNTAI 120
        |
Db      62 IAGRILGVLGVPPFAGQLASFYSFLVGELWPSGRDPWEIFLEHVEQLIRQQVTENTRNTAI 121
        |
Qy      121 ARLEGLGRGYRSYQQALETWLDNRNDARSRSIILERYVALELDITTAIPLFRIRNEEVPL 180
        |
Db      122 ARLEGLGRGYRSYQQALETWLDNRNDARSRSIILERYVALELDITTAIPLFRIRNEEVPL 181
        |
Qy      181 LMOVYAQAANLHLLLRDASLFGSEWGMASDVNQYYQEIQIRYTEEYSNHCQWYNTGLNN 240
        |
Db      182 LMOVYAQAANLHLLLRDASLFGSEWGMASDVNQYYQEIQIRYTEEYSNHCQWYNTGLNN 241
        |
Qy      241 LRGTNAESWLRYNQFRRDLTLGVLDLVALFPSTYDTRTYPINTSAQLTREIYTDPIGRTNA 300
        |
Db      242 LRGTNAESWLRYNQFRRDLTLGVLDLVALFPSTYDTRTYPINTSAQLTREIYTDPIGRTNA 301
        |
Qy      301 PSGFASTNWFNNNAPSFSIAEAAIFRPPHLLDFPEQLTIYSASSRWSSTQHMNYWVGHR 360
        |
Db      302 PSGFASTNWFNNNAPSFSIAEAAIFRPPHLLDFPEQLTIYSASSRWSSTQHMNYWVGHR 361
        |
Qy      361 NFRPIGGTLNTSTQGLTNNTSINPVTLQFTSRDVRYESNAGTNILFTTPVNGVPWARFN 420
        |
Db      362 NFRPIGGTLNTSTQGLTNNTSINPVTLQFTSRDVRYESNAGTNILFTTPVNGVPWARFN 421
        |
Qy      421 FINPQNIYERGATTYSQPYQGVGIQLFDSETELPPETTERPNYESYSHRLSHIGLIIGNT 480
        |

```

```
Db      422 FINPQNIYERGATTYSQPYQGVGIQLFDSETELPPETTERPNYESYSHRLSHIGLIIGNT 481
Qy      481 LRAPVYSWTHRSADRTNTIGPNRITQIPLVKALNLHSGVTVVGGPGFTGGDILRRTNTGT 540
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      482 LRAPVYSWTHRSADRTNTIGPNRITQIPLVKALNLHSGVTVVGGPGFTGGDILRRTNTGT 541
Qy      541 FGDIRLNINVPLSQRYRVRIRYASTTDLQFFTRINGTTVNIGNFSRTMNRGDNLEYRSF 599
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      542 FGDIRLNINVPLSQRYRVRIRYASTTDLQFFTRINGTTVNIGNFSRTMNRGDNLEYRSF 600
<!--EndFragment-->
```